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Odefine ATT\_DMAIL\_FILE Sdefine DELINITES

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```
finctude etring.h
Sinclude <time.h>
Sinclude estdie.ho
Sinclude edoc.ho
#include "mefari.h"
void min(void)
        filE *infile, *outfile;
        ther Buffer(B1), chr, timestr(6), datestr(9);
        cher meg_num(4);
        int meg num opt = 0;
        ther *ptr;
        int x,day,month, iine=1, attmail=0;
        time t t;
        if (Cinfile = fopenCATT_BMAIL_FILE, =rt=)) == HULL)
                 printf("%s does not exist\n",ATT_BMAIL_File);
exit(0);
        If {(outfile = fopen("tfmobox.988","wt")) == MULL)
                 printf("Can't open TPHCBCS(.305\n");
                 exit(0);
        >
        for(;;)
        €
                         get characters from .tmp file */
                 x = 0;
do
                 C
                          chr = fpetc(infile);
                          if (feof(infile))
                                  fctooo(infile);
                                  fcione(outfile);
                                  exit(0);
                          buffer[x++] = chr;
                 /* until end of line
while (chr != '\n' &L x != 80);
                                                            •/
                                               terminate it
                 buffer(x) = '\0';
                 17 (Line == 1)
                         ptr = strchr(buffer,")");
if (ptr-buffer == 2) /" was 3rd character */
                                   sacanf(buffer,"%("))",mq_num);
                                   mag_nun_apt = 1;
                                   ptree;
                         )
                          -
                                  ptr = buffer;
                          if (*ptr == *;* && *(ptr+1) == *0*)
attmail = 1;
                 )
                 if (ettesil)
                          switch(tine)
```

,

```
€
                                            datestr = mm/dd, timestr = hhime
                                ascanf(datestr,"%d/%d",&conth,&doy);
                                                                                              */
                                           get year from po
                               t = time(MULL);
                               fprintf(mutfile,"Deta: %e",ctime(&t));
                                fprintf(outfile,"From: NoT, buffer);
                               breek;
                     page 31
                               fprintf(outfile,"Subject: %e",buffer);
fprintf(outfile,"Te: diame here*\n");
                               if (mag_num_opt)
fprintf(outfile, measage #%a\nr, mag_num);
                     defaults
                                fprintfloutfile,"%",buffer);
                               brooks
          )
)
e199
(
           if (time == 1)
                     t = tim(RRL);
                     t = TIMECHAL);
printfourfile, "Date: Xe",ctime(&1));
fprintfourfile, "Prest thebouy");
fprintfourfile, "Rabject Teleffied Network Message'u");
fprintfourfile, "To: Game here'u");
                     if (meg_num_ept)
                                fprintf(outfile,"Message #6\r",meg_rum);
fprintf(outfile,"%a",buffer+3);
                     else
                                fprintf(outfile,"Me",buffer);
          )
el se
                     fprintf(outfile,"%e",buffer);
3
if (stroup(buffer,DELIMITER) = 0)
           meg_num_opt = line = ettms!( = 0;
2
line ++;
```

```
1990 TELEFIND CORP.
         Copyrights
                                      RICHAEL P. PONSCHEZ, BR.
         Authors
                                      03/13/91
         Program:
                                      TO EXTRACT MESSAGES FROM A TELEFINO PAGES
         purpose:
                                      VIA IN R9-232 PORT ON A PC
                                       TURBO C++ 1.0
         compiler:
                                       BOLALL
         Hemory Rodel:
#include <doc.h>
#include <atdio.h>
finelucte «conto.h»
#include satdlib.h>
#include satdlib.h>
#include "safari,h"
                                                 •/
                   CONSTANTS
                                       0x01
Adefine DTR_HI
                                        Oxfe
define DTR_LO
                                        0x02
 Adeffre RTS_HI
                                        Oxfd
 Adefine RTS_LD
                                        0x20
 Adefine DSR_HI
                                        0x40
 Sdoffine RING_IN
 #define CD_#1
#define F1VE_T1CK
#define F1VE_SEC
#define TUELVE_SEC
#define TUELVE_SEC
                                        0180
                                        5
                                        96
                                        220
                                        "L00"
                                         "Please standby, retrieving messages ..."
 Adefine INTRO STRING
                                        •/
        PLNCTICH PROTOTYPES
  inc beep(void); wold busyoff(void);
  void busyon(void);
void disoff(void);
void dison(void);
  int link(void);
  void print_message(void);
int radate(void);
  int atrobe(void);
  int atrobe_deta(veid);
  unsigned ticks(void);
  int timeout(unsigned start, int delay);
  P VARIABLE DECLARATIONS
                                         •/
  ther pager_buffer(511);
  int com base, control_reg, status_reg, log_fine; FILE *log_file;
   veid main(int num_arg, char **args)
            uneigned start;
            int restort,x;
                                                 use com i unises command line danotes otherwise - */
            com_beat = 0x3f8;
                                                              •/
                      pet commend line arguments
```

```
all command line organists begin with a single "-" and
must be separated by a single space between such other
and the program name
         time COM port 1
         Use COM port 2
-2
         Log all activity to a file remed LOG
                                                                •/
 -#
          for (x=1; x=num_srg; x++)
                  If (atrosp(argm(x),=-1=) == 0)
com_base = 0x3f8;
If (atrosp(argm(x),=-2=) == 0)
                   compless = 0x248;

if (stronp(ergs(x),*-r*) == 0)

log_flag = 1;
          ,
 )
 if (log_flog)
          if ((log_file = fopen(LDG_file, met=)) == MULL)
    printf("Unable to open LOG\n");
  pontrol_reg = com_base + 4;
 status_reg = cos_base + 6;
  elracr():
                             /* Is pager attached ?
  1f (link() == 0)
           •
           printf("Please strach Nessage Receiver \n");
                              /* start busy at logic high =/
  busyon();
  /* push display button */
   disen();
   sleep(2);
   €
            start = ticks();
            restort = 0;
            do
            •
                     If (beep())
                              print_messee();
restart = 1;
                               start -- THELVE_MEC!
                               brook;
            /" hold display button for 12 seconds "/
shite(! timeout(start,TUELVE_SEC));
    wile(restort);
                     /* release the display button */
    disoff():
    11 (tog_flag)
             fprintf(leg_file, "Process Complete \n");
```

```
fctees(log_file);
                                       •/
po
int boop(void)
            sace the Ri line vis the Status Register
       which is activated when the paper beeps
       uneigned stort;
       stort = ticks();
       while ( I timeout(start,FIVE_TICK))
                if ((importb(statum_res) & RIMG_IM) == 0 )
                       return(1);
       return(0);
>
        busyon & busyoff toggle the DTR line via the
        Control Register to etrobe in data from the pager
weld busyoff(void)
        eutportb(control_reg,inportb(control_reg) | DTR_HI);
>
void busyen(void)
        outportb(control_reg,importb(control_reg) & DTR_LD);
        dison & disoff toppis the RTS line wis the Control Register
        to simulate the pressing of the display button on the pager
 void dison(void)
         eutportb(control_reg,inportb(control_reg) | RTS_KI);
 void diseff(void)
         outportb(control_reg, importb(control_reg) & RTS_LO);
 3
 int link(void)
         accesses the CD line vis the Status Register
         which is logic high when pager is corrected
         if ((inporth(statum_rep) & CO_HI) == 0)
                 return(0);
 wold print_message(vold)
         FILE *file;
         unaigned start;
         int x,y=0,z=0,chr,bit;
```

```
ready to accept pager data
IO37eyeud
                read until and code received
       shr = 0;
stort = ticks();
                unit for start bit
                bit = atrobe();
                if (bit = 0)
break;
        while (!timeout(start,FIVE_SEC));
        1f (b1t)
                 ff (log_flog)
                         fprintf(leg_fils,"Transmission Error, recheck connection\n");
                 disoff();
                 exit(0);
                         strabe out 8 bit date
         for (x=1; x<9; x++)
                 chr <<= 1;
                 chr -= bit = strobe_deta();
                          cleer out stop bits
         for (x=1;x<3;x++)
                 atrobe_deta();
              extract stort and and codes from message
              pager signon
pager signoff
                                   02, 18, 00, 33
                                   8
         If ((y > 3) & (chr (= 3))
                 /* pager characters 96 and 97 are converted to
ExFA and ExFS to display on pager
                  if (chr - Oxfa)
                          chr = "\n";
                  if (thr = Outb)
                          chr = 0x09;
                  pager_buffer(z) = thr;
z ++;
 pager_buffer[z] = '\0';
                        finished receiving data
```

```
if (log_flas)
                   fprintf(log_file,"%a\n",pager_buffer);
         if ((file = fopen(ATT_DMAIL_FILE, "st")) == HULL)
    fprintf(log_file, "Unable to open TFMCBCK.THP\n");
         -1-0
         •
                   fprintf(file,"%e\n",pager_buffer);
fprintf(file,"%e",DELIMITER);
folose(file);
         }
         etert = ticks();
         while(itimout(start,FIVE_SEC))
                 weit for erose beep
                  if (beep()) breek;
                                     well one more second */
         oloop(1);
int radeta(void)
         accesses the DSR line vie the Status Register
         which returns the bits value
         if (inportb(status_res) & DSR_HI)
                  return(0);
         return(1);
int strobe(void)
         int bit;
         busyon();
         delay(1);
        busyoff();
delay(4);
bit = rudeta();
return(bit);
int strobe_data(void)
         int bit;
         hunyon();
        delay(2);
bit = radeta();
busyoff();
         miny(1);
         return(bit);
uneigned ticks(void)
                  returns timer ticks (approx. 18.2/sec)
                  using only lower registers
        union REGS in, out;
         in.x.ax = 0x0;
         int86(0x1a,&in,&out);
        return(out.x.dx);
```

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```
/* mark the end of the command line you built, so you can add ending
           delimiter */
       sys_command(i) = NULL;
       /* add the ending quote for the users message so shell wont
       interepert special characters */
strcat(sys_command, "\'");
/* execute command you built */
       system(sys command);
       printf("sending message: %s\n", sys command);
     else (
       if(strlen(mesg) == 0 ) {
          return(0);
       /* print error for invalid message length */
printf("telemail error: invalid message length: %s\n", mesg);
       return(0);
     return(i);
3
     function: getline(hold-buffer, input-file-pointer)
     arguments: pointer to buffer where line read will be heald,
                  file pointer to input file
     description: reads 1 line of text from the input line and stores the
     line read into the buffer passed.
returns: -1 if EOF or number of characters read in
getline(buff, fp)
char *buff;
FILE *fp;
   int ch, cnt;
   /* keep on reading characetrs from file so long as end of file not
reached or char is the end of line */
   for(cnt = 0; ((ch = fgetc(fp)) != EOF) && ch != ' \n'; cnt++) {
        /* MOD BY OT 11/29/90 convert tab to space */
        /* convert tabs to single space */
        if (ch == 9) {
   ch = '';
        /* MOD BY OT 11/29/90 dont allow control char */
        /* only load in ascii characters */
        if(isprint(ch) != 0) (
           buff[cnt] = ch;
                                                                                 . '2
        else {
               /* turn control characters to spaces */
               buff[cnt] = ' ';
   /* mark the end of the buffer you built */
buff[cnt] = '\0';
```

```
function: send_mesg(message-pointer)
    arguments: pointer to text message(capcode, text) to be sent
     description: takes passed message text makes sure the first 8 positions
                     are numeric(capcode). it builds and executes the network send command(netsend.sh) to sedn the message passed.
     returns: 0 if not sent otherwise the number of characters sent out
int send mesg(mesg)
char *mesg;
   char sys_command[700];
   int i:
    int ch;
   char *mesg ptr;
   /* left justify the message passed to remove leading spaces */ strljust(mesg, 512);
    /* trim off trailing blank spaces from the message */
   strtrim (mesg);
    /* make sure you have a capcode at least */
   if (strlen(mesg) > 8) {
       /* start to build the command to be executed to send message retreieved
           from the mail box */
       strcpy(sys_command, "netsend.sh ");
       /* loop while still more characters in the message */
for(mesg_ptr = mesg, i = 11; *mesg_ptr != NULL; i++, mesg_ptr++) {
            /* make sure the first 8 positions of the message are numeric */
if((i < 19) && (*mesg_ptr < '0' || *mesg_ptr > '9')) {
    printf("telemail error: invalid capcode: %s\n", mesg);
                 return 0;
                                                                                   ... i . ..
             /* is the user didsnt seperate capcode & message then insert a
            space into the command */
if(i == 19 && *mesg_ptr != ' ') {
   sys_command[19] = ' ';
                i = 20;
             /* enclose the users message with ' so shell wont interpet
                special characters */
             if(i == 20) {
                sys_command(20) = '\'';
i = 21;
                                                                                     1.0.8 . . . .
           /* put the character from the message onto to the
               command to be executed **/
           sys_command[i] = *mesg_ptr;
       }
```

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}

```
/\!\!^* since your just starting clear the message area */ memset(mesg, NULL, MAXMSGLEN);
/* keep on geting lines from the file until you reach end of file ^{*}/ \cdot while (getline (buff, fp) \,!= -1) {
    /* every mail message start with the word "From " */
if(strncmp(buff, "From ", 5) == 0) {
   /* set flag telling you are currently going thru mail header
   so you dont add it to the message */
         in header = 1;
         /* call routine to the last message if any exists */
         send mesg(mesg);
         continue;
    /* a mail header end with the following string */
if(strncmp(buff, "Content-Length:", 15) == 0) {
   /* turn off flag so you know you are no longer in mail
   message header */
          in header = 0;
          /* clear the old message since this is a new one */
         memset (mesg, NULL, MAXMSGLEN);
         continue;
     /* if the line you are now reading in not part of the mail header
     add it to the message */
if(in_header == 0) {
                                                                                                      " The same of the same
         strljust (buff, 512);
         strtrim(buff);
         /* make sure you dont add more than the message length */
if( (strlen(buff) + strlen(mesg)) < MAXMSGLEN) {
   strcat(mesg, " ");</pre>
              strcat (mesg, buff);
         )
} /* end of read line while */
                                                                                                         ....
/* send the last message in the file */
send_mesg(mesg);
```

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and making the

```
Program name: telemail.c
                                   network mail pickup
    Description: program searches the passed "mail" file and extracts
                   the messages from it. a message is delimited by the words "message length" and "From ". these messages are then
                     out on the telefind network. non ascii characters
                     are skipped and invalid messages are displayed to the
                     standard output.
    author: Oren Tavory
    site: telefind.corp
    date: 11/25/90
    modification history:
           11/29/90 MOD BY OT fix problem of tabs being sent to network
                                  by converting tabs to a space char
           11/29/90 MOD BY OT fix problem of control characters being
                                  passed if the message
#include <stdio.h>
#include <string.h>
finclude <ctype.h>
#define MAXMSGLEN 512
#define MAXLINELEN 512
void main(argc, argv)
int argc;
char *argv[];
   FILE *fp;
   char *buff;
char *mesg;
   int in header;
   /* make sure user passed filename to be converted */
   if(argc != 2) {
   printf("telemail ERROR: Usage: telemail mail-filename\n");
        exit(1);
   /* open the mail file */
   if((fp = fopen(argv[1], "r")) == NULL) {
      printf("telemail error: cant open mail file %s\n", argv[1]);
      exit(2);
   /* allocate need buffer that will hold each line of the file */
if((buff = (char *) malloc( MAXLINELEN * sizeof(char))) == NULL) {
    printf("telemail error: cant allocate memory for buffer\n");
      exit(3);
   /* allocate buffer for message to be stored */
   if((mesg = (char *) malloc( MAXMSGLEN * sizeof(char))) == NULL) {
      printf("telemail error: cant allocate memory for message\n");
      exit(4);
```



```
if(ch == EOF) {
  return (-1);
}
else {
  return(cnt);
}
```

}